BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division**

EMB
Pre Measurements

Job Code: **006-20-000204**

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
Pre Measurements

me of work: Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division
rk Order No: BBMP/EE/BTP/WO/190/2020-21 dt: 17.02.2021
B NUMBER: 006-20-000204
imate Cost: 15.00 lakhs.
me of Contractor : Sri. S. Narayana Rao

Description of item	Unit	No	L	B	D	Qty
KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / item no 2.3 page no 6 **of PWD SR 2018-19**						
Centerline	Cum	1	14.60	1.00	1.20	17.52
Columns		4	1.40	1.40	1.50	11.76
				Total qty		**29.28**
Deduct columns		4	1.00	1.00	1.00	4.00
				Net qty		25.28
				Ltd		**24.78**

Assistant Engineer
Ward No. 06
21.02.2022

Assistant Executive Engineer
Byatarayanapura Sub Division
21/2/2022

KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3 **of PWD SR 2018-19**						
Centerline	Cum	1	14.60	0.75	0.15	1.64
for columns		4	1.35	1.35	0.15	1.12
flooring		1	2.45	4.55	0.15	1.67
				Total qty		**4.44**
deduct columns		4	0.75	0.75	0.15	0.34
				Actiual Qty		**4.10**
				Limited to		**4.08**

Assistant Engineer
Ward No. 06
23.02.2022

Assistant Executive Engineer
Byatarayanapura Sub Division
23/2/2022

KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.6 **PWD SR 2018-19**						
for foundation	Cum	1	14.60	0.60	0.50	4.38
deduct		4	1.20	0.60	0.50	1.44
				Actiual Qty		**2.94**
				Limited to		2.71

Assistant Engineer
Ward No. 06
26.02.2022

Assistant Executive Engineer
Byatarayanapura Sub Division
26/2/2022

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Description of item	Unit	No	L	B	D	Qty
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.9 **PWD SR 2018-19**						
for basement	Cum	1	14.60	0.50	0.40	2.92
deduct		4	1.20	0.50	0.40	0.96
				Actiual Qty		1.96
				Limited to		**1.83**

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**						
column footings	Cum	4	1.20	1.20	0.60	3.46
columns		4	0.15	0.45	3.50	0.95
Plinth beam		1	14.60	0.30	0.30	1.31
Lintel		1	14.60	0.15	0.15	0.33
Roof slab		1	5.45	3.35	0.15	2.74
				Actiual Qty		**8.78**
				Limited to		**8.74**

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19**						
12 mm bars	Tonne					
column footting	4	18	1.20	86.40		
columns	4	4	4.00	64.00		
				150.40	0.89	**133.86**
8 mm rings	4	28	1.20	134.40	0.39	**52.42**
Plinth beam						
10 mm bars	4	2	2.75	22.00		
	4	2	4.85	38.80		
				60.80	0.62	**37.70**
	2	32	1.10	70.40		
8 mm rings	2	18	1.10	39.60		
				110.00	0.39	**42.90**
Lintel	2	4	2.75	22.00		
10 mm bars	2	4	4.85	38.80		
				60.80	0.62	**37.70**
	2	32	0.75	48.00		
8 mm rings	2	18	0.75	27.00		
				75.00	0.39	**29.25**
	2	6	2.75	33.00		
beams -12 mm dia bars	2	6	4.85	58.20		
				91.20	0.89	**81.17**
	2	32	1.25	80.00		
rings 8 mm dia bars	2	18	1.25	45.00		
				125.00	0.39	**48.75**
Roof slabs						

463.57

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Description of item	Unit	No	L	B	D	Qty
10 mm dia bars in both ways	27	5.40		145.80		
	43	3.30		141.90		
extra bars	44	1.35		59.40		
	26	1.35		35.10		
				382.20	0.62	236.96
					Total in kgs	700.70
					in Tonne	0.701
					Ltd to	0.70

Assistant Engineer 14.03.2022
Ward No. 06

Assistant Executive Engineer 14/3/2022
Byatarayanapura Sub Division

KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.31 PWD SR 2018-19**

column footting	Sqm	4	4.80	0.60		11.52
columns		4	1.30	3.50		18.20
plinth beam		2	4.85	0.20		1.94
		2	2.45	0.20		0.98
Lintel		2	4.85	0.20		1.94
		2	2.45	0.20		0.98
beams		4	2.45	0.30		2.94
		4	4.55	0.30		5.46
roof slab		1	2.45	4.55		11.15
		1	2.75	0.60		1.65
		1	5.45	0.60		3.27
roos sides		2	2.75	0.25		1.38
		2	5.45	0.25		2.73
						64.13

Assistant Engineer 14.03.22
Ward No. 06

Assistant Executive Engineer 14/3/2022
Byatarayanapura Sub Division

KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116, Item No. 15.21 of PWD SR 2018-19**

	Sqm	1	2.45	4.55		11.15
		1	2.75	0.60		1.65
		1	5.45	0.60		3.27
		1	5.45	0.15		0.82
roof edge		1	2.75	0.15		0.41
				Qty		17.30

Assistant Engineer 22/04/2022
Ward No. 06

Assistant Executive Engineer 22/4/2022
Byatarayanapura Sub Division

Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P NO - 6, I NO - 2.3, PWD SR 18-19)

	Cum	1	29.90	0.50	0.60	8.97
				Actiual Qty		8.97
				Limited to		8.10

Assistant Engineer 25/4/2022
Ward No. 06

Assistant Executive Engineer 25/4/2022
Byatarayanapura Sub Division

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